

**Amendments to the Claims:**

A listing of the entire set of pending claims (including amendments to the claims, if any) is submitted herewith per 37 CFR 1.121. This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Original) A filament or fibre (2) comprising:  
a volume modulation colouration producing substance (6);  
containment means (8) for containing the substance in the form of an elongated core which containment means is at least partially light transmitting; and  
stimulation means (4) for stimulating the substance to produce a change in the volume of the substance, thereby changing the colour of the filament or fibre.
2. (Original) A filament or fibre as claimed in Claim 1 wherein the substance comprises a volume modulation colorant.
3. (Original) A filament or fibre as claimed in Claim 2 wherein the volume modulation colorant comprises artificial pigment cells.
4. (Previously Amended) A filament or fibre as claimed in Claim 2 wherein the volume modulation colorant comprises polymer gel particles, which particles are immersed in an aqueous solution, the polymer gel particles and aqueous solution together forming the substance.
5. (Original) A filament or fibre as claimed in Claim 3 wherein the polymer gel particles have a diameter falling within the range of 5 to 100  $\mu\text{m}$ .

6. (Previously Amended) A filament or fibre as claimed in Claim 4 wherein the concentration of polymer gel particles is between 5 and 40 wt%, and the gel solid content is in the range of 1 to 10 wt%.

7. (Previously Amended) A filament or fibre according to Claim 4 wherein the containment means (8) comprises an outer sheath.

8. (Original) A filament or fibre according to Claim 7 wherein the outer sheath is transparent.

9. (Previously Amended) A filament or fibre according to Claim 7 wherein the outer sheath is formed from a flexible polymer.

10. (Previously Amended) A filament or fibre according to Claim 2 wherein the stimulation means comprises heating means for heating the substance, and the volume modulation colorant is of the type having a volume that changes with temperature.

11. (Original) A filament or fibre according to Claim 10 wherein the heating means comprises an inner electrode (4) extending substantially axially through the elongate core.

12. (Previously Amended) A filament or fibre according to Claim 10 further comprising means for causing an electrical current to flow through the heating means.

13. (Previously Amended) A filament or fibre according to Claim 11 wherein the inner electrode (4) is spaced apart from the containment means by tens of  $\mu\text{m}$  to hundreds of  $\mu\text{m}$ , typically 100 $\mu\text{m}$ .

14. (Previously Amended) A filament or fibre according to Claim 2 wherein the stimulation means comprises electric means (22, 24) for applying an electric field across the substance, and the volume modulation colorant is of the type having a volume that changes with electric field.

Claims 15-37 (Cancelled)